

**AMENDMENTS TO THE CLAIMS**

1-16. (Canceled)

17. (Currently Amended) An information recording apparatus for recording information on a recording medium by forming marks different in a physical property from non-recorded portions with energy injected into the recording medium, comprising:

energy generation means which generates recording energy;

reading means which reads marks recorded on the recording medium;

position control means which controls an injecting position of the recording energy output from the energy generation means for the recording medium and controls a reading position of the reading means;

drive means which drives the energy generation means;

switching means which selectively switches information based on user's data or test information to be supplied to the drive means;

evaluation means which evaluates a reproduced signal amplitude obtained from the reading means; and

recording condition control means which controls a recording condition in accordance with an evaluation result obtained from the evaluation means,

wherein the apparatus is operated in a first servo condition and a second servo condition in reproducing the marks corresponding to the test information, a target condition of a track servo operation of the position control means is unchanged in reproduction under the first condition as compared with a track servo condition in a time when the test information is recorded, and is changed in reproduction under the second condition as compared with the track servo condition in the time when the test information is recorded,

wherein the changed content of the control operation for the position control means is a tracking-offset amount, indicated by the position control means in a case where the test information is supplied to the drive means and recorded on the recording medium as recorded marks are formed side by side among adjacent tracks,

wherein in a case where the test information is supplied to the drive means and recorded on the recording medium, the test information inconsistent with a conversion rule of [[a]]an encoding means is used,

wherein the test information containing a longer run-length than a run-length rule of the encoding means is used, and

wherein the recording condition is controlled in accordance with a signal amplitude in the first condition and a signal amplitude in the second condition.

18. (Currently Amended) An information recording apparatus for recording information on a recording medium by forming marks different in a physical property from non-recorded portions with energy injected into the recording medium, comprising:

energy generation means which generates recording energy;

reading means which reads marks recorded on the recording medium;

position control means which controls an injecting position of the recording energy output from the energy generation means for the recording medium and controls a reading position of the reading means;

drive means which drives the energy generation means;

switching means which selectively switches information based on user's data or test information to be supplied to the drive means;

evaluation means which evaluates a reproduced signal amplitude obtained from the reading means; and

recording condition control means which controls a recording condition in accordance with an evaluation result obtained from the evaluation means,

wherein the apparatus is operated in a first servo condition and a second servo condition in reproducing the marks corresponding to the test information, a target condition of a track servo operation of the position control means is unchanged in reproduction under the first condition as compared with a track servo condition in a time when the test information is recorded, and is changed in reproduction under the second condition as compared with the track servo condition in the time when the test information is recorded,

wherein the changed content of the control operation for the position control means is a tracking polarity, indicated by the position control means in a case where the test information is supplied to the drive means and recorded on the recording medium as recorded marks are formed side by side among adjacent tracks,

wherein in a case where the test information is supplied to the drive means and recorded on the recording medium, the test information inconsistent with a conversion rule of ~~[[a]]~~an encoding means is used,

wherein the test information containing a longer run-length than a run-length rule of the encoding means is used, and

wherein the recording condition is controlled in accordance with a signal amplitude in the first condition and a signal amplitude in the second condition.

19. (Currently Amended) An information recording apparatus for recording information on a recording medium by forming marks different in a physical property from non-recorded portions with energy injected into the recording medium, comprising:

energy generation means which generates recording energy;

reading means which reads marks recorded on the recording medium;

position control means which controls an injecting position of the recording energy output from the energy generation means for the recording medium and controls a reading position of the reading means;

drive means which drives the energy generation means;

switching means which selectively switches information based on user's data or test information to be supplied to the drive means;

evaluation means which evaluates a reproduced signal amplitude obtained from the reading means; and

recording condition control means which controls a recording condition in accordance with an evaluation result obtained from the evaluation means,

wherein the apparatus is operated in a first servo condition and a second servo condition in reproducing the marks corresponding to the test information, a target condition of a track servo operation of the position control means is unchanged in reproduction under the first condition as compared with a track servo condition in a time

when the test information is recorded, and is changed in reproduction under the second condition as compared with the track servo condition in the time when the test information is recorded,

wherein the changed content of the control operation for the position control means is a stop or a start of a tracking operation, indicated by the position control means in a case where the test information is supplied to the drive means and recorded on the recording medium as recorded marks are formed side by side among adjacent tracks,

wherein in a case where the test information is supplied to the drive means and recorded on the recording medium, the test information inconsistent with a conversion rule of [[a]]an encoding means is used,

wherein the test information containing a longer run-length than a run-length rule of the encoding means is used, and

wherein the recording condition is controlled in accordance with a signal amplitude in the first condition and a signal amplitude in the second condition.

20. (Currently Amended) An information recording apparatus for recording information on a recording medium by forming marks different in a physical property from non recorded portions with energy injected into the recording medium, comprising:

energy generation means which generates recording energy;

reading means which reads marks recorded on the recording medium;

position control means which controls an injecting position of the recording energy output from the energy generation means for the recording medium and controls a reading position of the reading means;

vibration means which vibrates the reading means in a direction perpendicular to a main scanning direction on the recording medium and in parallel with the recording medium;

drive means which drives the energy generation means;

switching means which selectively switches information based on user's data or test information to be supplied to the drive means;

evaluation means which evaluates a reproduced signal amplitude obtained from the reading means; and

recording condition control means which controls a recording condition in accordance with an evaluation result obtained from the evaluation means,

wherein the apparatus is operated in a first servo condition and a second servo condition in reproducing the marks corresponding to the test information, a target condition of a track servo operation of the position control means is unchanged in reproduction under the first condition as compared with a track servo condition in a time when the test information is recorded, and is changed in reproduction under the second condition as compared with the track servo condition in the time when the test information is recorded,

wherein the changed content of the control operation for the position control means is a stop or a start of vibrating operation of the vibrating means in a case where the test information is supplied to the drive means and recorded on the recording medium as recorded marks are formed side by side among adjacent tracks,

wherein in a case where the test information is supplied to the drive means and recorded on the recording medium, the test information inconsistent with a conversion rule of [[a]]an encoding means is used,

wherein test information containing a longer run-length than a run-length rule of the encoding means is used, and

wherein the recording condition is controlled in accordance with a signal amplitude in the first condition and a signal amplitude in the second condition.

21-37. (Canceled)